

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A tool-holding device (~~22, 50, 58~~) for holding a tool (~~24~~) on a tool chuck (~~20~~), having a tool-locating region (~~32, 52, 66~~) for at least partly locating the tool (~~24~~), a connecting region (~~26, 54, 62~~) for arranging on the tool chuck (~~20~~), and a positioning opening (~~48~~), through which a positioning means (~~18~~) can be placed against the tool (~~24~~) arranged at least partly in the tool-locating region (~~32, 52, 66~~).

2. (Currently amended) The tool-holding device (~~22, 50, 58~~) as claimed in claim 1, ~~characterized in that~~ wherein the tool-locating region (~~32, 52, 66~~), when the tool chuck (~~20~~) is arranged in the connecting region (~~26, 54, 62~~), is intended for holding the tool (~~24~~) in alignment with a locating opening (~~28~~) of the tool chuck (~~20~~).

3. (Currently amended) The tool-holding device (~~22, 50~~) as claimed in claim 1 ~~or 2~~, ~~characterized in that~~ wherein the connecting region (~~26, 54~~) has a shank for arranging in a locating opening (~~28~~) of the tool chuck (~~20~~).

4. (Currently amended) The tool-holding device (~~50, 58~~) as claimed in ~~one of the preceding claims, characterized in that~~ claim 1, wherein a holding element (~~56, 68~~) provided for the elastic deformation is arranged in the connecting region (~~54, 62~~) and/or in the tool-locating region (~~52, 66~~).

5. (Currently amended) The tool-holding device (50) as claimed in claim 4, ~~characterized in that~~ wherein the holding element (56) comprises an O-ring.

6. (Currently amended) The tool-holding device (58) as claimed in ~~one of the preceding claims, characterized in that~~ claim 1, wherein a movably mounted holding element (68) is arranged in the connecting region (62) and/or in the tool-locating region (66).

7. (Currently amended) The tool-holding device (58) as claimed in claim 4 ~~or 6~~, ~~characterized in that~~ wherein the holding element (68) is a rolling-element cage.

8. (Currently amended) The tool-holding device (58) as claimed in ~~one of the preceding claims, characterized in that~~ claim 1, wherein the connecting region (62) has an inner wall (64) for arranging around an outer wall (60) of the tool chuck (20).

9. (Currently amended) The tool-holding device (58) as claimed in claim 8, ~~characterized in that~~ wherein the inner wall (64) is tapered.

10. (Currently amended) A method of positioning a tool (24) in a tool chuck (20), in which a tool-holding device (22, 50, 58) is arranged on the tool chuck (20) and the tool (24) is held by the tool-holding device (22, 50, 58), and a characteristic element (42) of the tool (24) is scanned for positioning a positioning means (18), a force being applied to the tool (24) by the positioning means (18) through a positioning opening (48) in the tool-holding device (22, 50, 58).

11. (Currently amended) The method as claimed in claim 10, ~~characterized in that~~ wherein the force on the tool (24) is maintained during the measuring of the characteristic element (42).

12. (Currently amended) The method as claimed in claim 10 ~~or 11~~, ~~characterized in that~~ wherein the positioning means (18) is placed against the tool (24) before the measuring of the characteristic element (42), and the tool (24) is scanned when said positioning means (18) is placed against it.

13. (Currently amended) The method as claimed in claim 12, ~~characterized in that~~ wherein the placing of the positioning means (18) against the tool (24) causes the tool (24) to move, and the movement is used as a trigger for stopping the movement of the positioning means (18).

14. (Currently amended) The method as claimed in ~~one of claims 10 to 13~~ claim 10, ~~characterized in that~~ wherein the tool (24) is lifted in the tool-holding device (22, 50, 58) by the positioning means (18) before the measuring of the characteristic element (42) and remains lifted during the measuring.

15. (Currently amended) The method as claimed in ~~one of claims 10 to 14~~ claim 10, ~~characterized in that~~ wherein an optical measuring system (6) is ~~focussed~~ focused on a predetermined point, the optical measuring system (6), if the tool (24) is absent or visible in the field of view (36, 36a) of the optical measuring system (6), is brought closer to or respectively moved away from the tool chuck (20) in the axial direction (40) of a tool-locating

region (~~32, 52, 66~~), and, after the characteristic element (~~42~~) appears in the field of view (~~36, 36a~~), its actual position (Z_{actual}) is determined and the force is then applied to the tool (~~24~~).

16. (Currently amended) The method as claimed in claim 15, ~~characterized in that~~ wherein, after the application of the force, the actual position (Z_{actual}) is measured again for determining the desired position of the positioning means (~~18~~).

17. (Currently amended) The method as claimed in ~~one of claims 10 to 16~~ claim 10, ~~characterized in that~~ wherein the tool (~~24~~) and the tool-holding device (~~22, 50, 58~~) are separated from one another after the measuring and the tool (~~24~~) is inserted into the tool chuck (~~20~~).